



<http://www.mn-arts.org/>

## *January 2018 Edition*

### **January Meeting Minutes**

Russ Ramirez/K0WFS, called the meeting to order at 1:00 PM. 24 were in attendance.

Paul Bushouse/N0TYE reports that there is \$2310.02 in the checking account.

**Old Business:** None

### **New Business:**

Russ Ramirez reviewed the duties of the club president & secretary. Both positions were up for election.

Russ Ramirez and Steve Ulrich volunteered to stand for another term and as no one else stepped forward they were reelected for president and secretary respectively.

Presentations were discussed and the members encouraged to let subjects that interest them be known.

### **Show and Tell:**

**Mike Burk**, KD0JXE, brought in an SDR transceiver he constructed along with several matching devices. The SDR is controlled by an Arduino. He is using a random length end fed antenna for this

radio and Fldigi for the control program. The enclosures he purchased from e-bay.



**Bruno Bittner**, KD0SKS, brought in some Norcal 40A boards he recently had made. He made them available to the members that would like to build the transceiver. They were produced in China and are of very good quality. There was also some discussion about the QCX kit being offered by QRP Labs.



**John Krawczak**, KJ0P, brought in a QCX kit he has been constructing. This is a CW transceiver. He has not yet selected the band of operation but is so far happy with the quality of the kit. He pointed out a number of the kit features. It has a 5 watt output using a class E amplifier, built in iambic keyer and a blue LCD display. It also has built in test gear so that no external lab equipment is necessary. There is an optional GPS interface for Whisper operation. John also shared the construction manual which has a good circuit tutorial included.

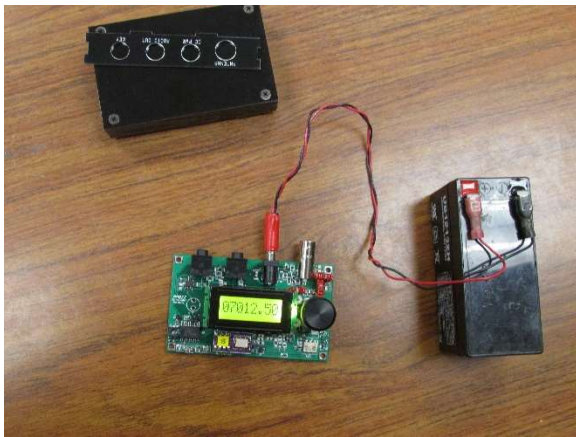


**Craig Johnson**, AA0ZZ, showed us a new enclosure he has developed which is similar in size to an Altoids box. It is designed to fit a small transceiver inside. Craig also showed us a new transceiver he is working on. It uses 0805 surface mount parts to keep the size down and a mini circuits diode ring mixer which he said worked very well. Frequency control is via an SI570 synthesizer.





**Mert Nellis**, W0UFO, brought in a Bayou Jumper radio he won at the recent Ozarkcon convention. This is a retro type of radio with a regenerative receiver and crystal controlled transmitter. It was housed in a very nice wooden enclosure.



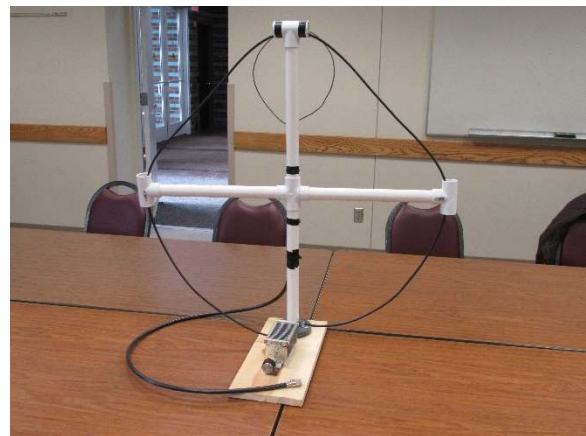
### January Presentation:

The presentation was by **Paul Hines**, N0KCJ, on Loop Antennas. John explained the overall theory of operation and then showed us how the spacing between the loops determines tuning. He went on to review the various types of capacitors that can be used along with a novel water based capacitor. He suggested Cardwell Capacitors as a

source for large variable air capacitors.  
<https://www.cardwellcondenser.com/>

John went on to demonstrate the operation of two loops he brought in which was very informative.

Several members mentioned that they were inspired to try one of these antennas!! Thank you for a great presentation.



Submitted by: Steve Ulrich/NW0C

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### **Club Officers:**

*President: Russ Ramirez/K0WFS*  
*Vice Pres: Jeremy Mooney/KC0LDI*  
*Secretary: Steve Ulrich/NW0C*  
*Treasurer: Paul Bushouse/N0TYE*  
*At Large: Bob Liesenfeld/WB0POQ*

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